

2
NCS TIB 87-18



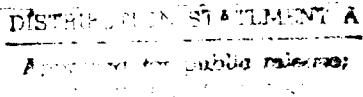
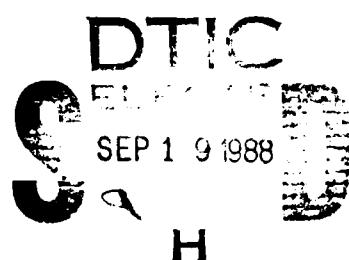
NATIONAL COMMUNICATIONS SYSTEM

AD-A198 894

TECHNICAL INFORMATION BULLETIN 87-18

RADIO FACSIMILE

VOLUME II: TEST RESULTS



MAY 1987

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NATIONAL COMMUNICATIONS SYSTEM

ATTENTION: TECHNICAL INFORMATION BUREAU
TELEGRAMS AND TELETYPE

NCS-TS

SEP 13 1988

Defense Technical Information Center
ATTN: DTIC-FDAC
Cameron Station
Alexandria, VA 22314-6145

Dear Mr. Proctor:

The enclosed Technical Information Bulletins are being returned to you as is for final processing. Per our telephone conversation, the pages in question are intentionally prepared to include poor facsimile transmission examples.

Dennis O. Wilson
for DENNIS BODSON
Assistant Manager
Technology & Standards

Form Approved
OMB NO. 0704-0188

REPORT DOCUMENTATION PAGE			
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19 ABSTRACT (Continue on reverse if necessary and identify by block number) This volume contains the raw data obtained from tests of groups-1, 2, and 3 FAX using the Government's HF simulator at Ft. Monmouth, NJ. Both the premessage exchange and the message portion of a FAX transmission are tested. -2, and -3			
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NCS TECHNICAL INFORMATION BULLETIN 87-18

RADIO FACSIMILE
VOLUME II: TEST RESULTS

PROJECT OFFICER

DENNIS BODSON
Senior Electronics Engineer
Office of NCS Technology
and Standards

APPROVED FOR PUBLICATION:

Dennis Bodson

DENNIS BODSON
Assistant Manager
Office of NCS Technology
and Standards

FOREWORD

Among the responsibilities assigned to the Office of the Manager, National Communications System, is the management of the Federal Telecommunication Standards Program. Under this program, the NCS, with the assistance of the Federal Telecommunication Standards Committee identifies, develops, and coordinates proposed Federal Standards which either contribute to the interoperability of functionally similar Federal telecommunication systems or to the achievement of a compatible and efficient interface between computer and telecommunication systems. In developing and coordinating these standards, a considerable amount of effort is expended in initiating and pursuing joint standards development efforts with appropriate technical committees of the Electronics Industries Association, the American National Standards Institute, the International Organization for Standardization, and the International Telegraph and Telephone Consultative Committee of the International Telecommunication Union. This Technical Information Bulletin presents an overview of an effort which is contributing to the development of compatible Federal, national, and international standards in the area of facsimile. It has been prepared to inform interested Federal activities of the progress of these efforts. Any comments, inputs or statements of requirements which could assist in the advancement of this work are welcome and should be addressed to:

Office of the Manager
National Communications System
ATTN: NCS-TS
Washington, DC 20305-2010

VOLUME II
RADIO FACSIMILE TEST RESULTS
Final Report

Submitted to:

NATIONAL COMMUNICATIONS SYSTEM
8th & S. Courthouse Roads
Arlington, VA 22204

D E L T A I N F O R M A T I O N S Y S T E M S, I N C.
Horsham Business Center, Bldg. 3
300 Welsh Road
Horsham PA 19044
(215) 657-5270

Volume II - Radio Facsimile Test Results

This volume contains the raw data obtained from tests of groups-1, -2 and -3 FAX using The Government's HF simulator at Ft. Monmouth, New Jersey. (Volume I is the Final Report based on this data.) Both the premessage exchange and the message portion of a FAX transmission are tested. For a premessage test, five trials are made and the successes and failures are recorded. For the message test, the message is transmitted and the received document taken as the test result.

The tests are identified by a Roman numeral which may be followed by a letter, and a number. The numeral I identifies the base-line test, II indicates a test of a single impairment, and III is a composite test. The capital letter identifies the type of impairment, such as selective fading or noise; and the number identifies the degree of impairment.

It will be noted that variations in bandwidth are not included in the tests. The bandwidth was set (using external filters) to run from 600 to 2800 Hz.

Most tests are run for both the premessage exchange and the message portion of the transmission. In some cases, when the premessage exchange failed, the test of the message portion was still run by forcing the equipment to go to the message phase.

Legible Document per letter



Following is a list of those tests performed:

I. Base-line tests, single path, no noise, no impairments.

These tests provide a basis for comparison.

II. Primary tests, single impairment. These tests measure the effect of one impairment at a time.

A. Gaussian noise (simulator setting plus 7.5 dB).

1. S/N = 10 dB (normal)
2. S/N = 12 dB
3. S/N = 14 dB
4. S/N = 16 dB
5. S/N = 22 dB

B. Impulse Noise

1. Random, 100/min, 1 m sec, 0 dB peak-to-rms signal
2. Random, 500/min, 1 m sec, 0 dB peak-to-rms signal
3. Random, 500/min, 1 m sec, 6 dB peak-to-rms signal

C. Multipath (= differential delay)

1. Two paths, equal attenuation, τ = 1 m sec, 1 Hz off-set.
2. Two paths, 3 dB difference, τ = 1 m sec, 1 Hz off-set.
3. Two paths, 6 dB difference, τ = 1 m sec, 1 Hz off-set.
4. Two paths, 9 dB difference, τ = 1 m sec, 1 Hz off-set.

5. Two paths, 12 dB difference, $\tau = 1$ m sec, 1 Hz off-set.
6. Two paths, 15 dB difference, $\tau = 1$ m sec, 1 Hz off-set.
7. Two Paths, 18 dB difference, $\tau = 1$ m sec, 1 Hz off-set.
8. Three paths, 9 dB difference, $\tau = 1$ and 0.5 m sec, 1 and 0.5 Hz off-set.
9. Three paths, 12 dB difference, $\tau = 1$ and 0.5 m sec, 1 and 0.5 Hz off-set.

D. Flat Fading

1. Single path, Doppler spread = 1 Hz.

E. Doppler

1. Single Path, - 75 Hz
2. Single Path, + 75 Hz
3. Single Path, - 32 Hz
4. Single Path, + 16 Hz
5. Single Path, + 7 Hz
6. Single Path, + 10 Hz

III. Secondary tests with multiple impairments

C-1. Multipath, Doppler, and Gaussian Noise;
Two paths, 12 dB difference, 1 m sec delay,
1 Hz off-set, 21.5 dB S/N, 7 Hz Doppler.

C-2. Same as C-1 but with 19.5 dB S/N, and 16 Hz Doppler.

C-3. Same as C-2 but with impulse noise added. (500 ppm,
1 m sec duration 0 dB peak-to-rms)

C-4. Impulse Noise and Gaussian Noise only; single path,
14 dB S/N.

TEST I

TYPE - PREMESSAGE

BW 600 TO 2800 HzS/N ∞ dBPATHS 1TRANSLATION C HzGROUP I S/F SGROUP II S/F S

GROUP III		S/F	DATA RATE
1			
2		<u>5</u>	<u>4800</u>
3			
4			
5			

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 218	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
TONAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	ON	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.00000 Hertz					
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 0.100000E+02 impulses/min	PULSE WIDTH: 0.000100 seconds					
CHANNEL NOISE OFF, POWER IN dBm:	-10.0000 RMS Voltage: 0.007246					
JOMING OFF						

TEST I

TYPE - MESSAGE

BW 600 TO 2800 HzS/N ∞ dBPATHS 1TRANSLATION 0 Hz

GROUP I

DOCUMENT 09-09-86 10:19

GROUP II

DOCUMENT 09-09-86 10:14GROUP III DATA RATE 4800 bpsDOCUMENT 09-09-86 10:02

	PATH NUMBER					
	1	2	3	4	5	6
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz) 2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RELAY (none)	0	0	0	0	0	0
ISIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
ISIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (VOUT)	ON	OFF	OFF	OFF	OFF	OFF
UNIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FABE RATE:	0.00000	Hertz				
IMPULSE NOISE OFF, PERIODIC	0.000	dB RE PEAK OUTPUT				
FREQUENCY: 9.100000E+02 impulses/min	PHASE WIDTH: 0.000100 seconds					
CHANNEL NOISE OFF, POWER IN dBm:	-10.0000	RMS Volts/det: 0.007746				
TRANSMITTING OFF						

FROM

09/09/86 10:19 P. I G 1



DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER BUILDING 3

300 WELSH ROAD

HORSHAM, PA 19044

(215) 657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

FROM

09/09/86 10:14 P. I G2



DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER, BUILDING 3
100 WELSH ROAD
HORSHAM, PA 19044
(215) 667-5270

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FROM

09/09/86 10:02 P. 1

43 4800



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HORSHAM BUSINESS CENTER, BUILDING 3

300 WELSH ROAD

HORSHAM, PA 19044

(215) 657-5270

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TEST II-A-1

TYPE - PREMESSAGE

BW 600 TO 2800 Hz

S/N 10 dB

PATHS 1

TRANSLATION 0 Hz

GROUP I S/F S,S,S,F,F,S

GROUP II S/F S,S,S,S,S (*all unacceptable documents*)

GROUP III

	S/F	DATA RATE	
1	F		
2	F		
3	S	2400	
4	F		← document cut off early
5	F		

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IRMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	0	0	0	0	0
ISIGNAL (dBm)	-1.94	-204.86	-204.86	-204.86	-204.86	-204.86
ISIGNAL (VRMS)	0.6197	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<CON>	OFF	OFF	OFF	OFF	OFF
IDIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.00000 Hertz					
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 0.100000E+02 impulses/min	PULSE WIDTH: 0.000100 seconds					
CHANNEL NOISE <CON>, POWER IN dBm:	-4.4378 RMS Voltage: 0.464716					
JAMMING OFF						

TEST II - A - 1

TYPE - MESSAGE

BW 600 TO 2800 Hz

S/N 10 dB

PATHS 1

TRANSLATION 0 Hz

GROUP I

DOCUMENT 9-23-86 10:33

GROUP II

DOCUMENT 9-23-86 09:48

GROUP III DATA RATE 2900 bps

DOCUMENT 9-23-86 9:41

PATH NUMBER						
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IRMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
ISIGNAL (dBm)	-1.94	-204.86	-204.86	-204.86	-204.86	-204.86
ISIGNAL (VRMS)	0.6197	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	(ON)	OFF	OFF	OFF	OFF	OFF
IDIVERSITY NO.	1	1	1	1	1	1
ICOMPOSITE RMS FADE RATE	0.00000 Hertz					
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 0.100000E+02 impulses/min	PULSE WIDTH: 0.000100 seconds					
CHANNEL NOISE <ON>, POWER IN dBm:	-4.4378 RMS Voltage: 0.464716					
IJAMMING OFF						

FROM

09/23/86 10:39 P.M.



DELTA INFORMATION SYSTEMS, INC.

WORSHAM BUSINESS CENTER BUILDING 5
300 WELSH ROAD
WORSHAM, PA 15044
(215) 857-5370

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1

FROM

03/23/86 09:48 P. I.

9.23.86 09:48

62

DELTA INFORMATION SYSTEMS, INC.

XEROCOPIER BUSINESS CENTER RADIOS

TELETYPE

TELETYPE

TELETYPE

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

HIGH P. I.

OM

09/23/86 09:41 P. 1

G 3 -2400



DELTA INFORMATION SYSTEMS, INC.

1000 WOODWARD AVENUE, BUREAU 111

SAC-WEEDWOOD

MURKHAM, PA 15066

(215) 667-6270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters. a b c d e f g h i j k l m n o p q r s t u v w x y z , , , / 1 2 3 4 5 6 7 8 9 0 H R C M T V W I Y I M N O D Q B C W U V W X V Z ! @ # \$ % & * () - _ + = ; " !

TEST II-A-2

TYPE - PREMESSAGE

BW 600 TO 2800 Hz

S/N 12 dB

PATHS 1

TRANSLATION 0 Hz

GROUP I S/F

GROUP II S/F

GROUP III

	S/F	DATA RATE
1	5	2400
2	5	2400
3	5	2400
4	5	2400
5	5	2400

+-----+
| PATH NUMBER
+-----+
| -1- -2- -3- -4- -5- -6- |
| IMEAN DOP (Hz) 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 |
| IRMS-DOP(Hz)2 sis 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 |
| IDELAY (usec) 0 0 0 0 0 0 |
| ISIGNAL (dBm) -1.32 -201.32 -201.32 -201.32 -201.32 -201.32 |
| ISIGNAL (VRMS) 0.6655 0.0000 0.0000 0.0000 0.0000 0.0000 |
| ISIGNAL (ON/OFF) <ON> OFF OFF OFF OFF OFF |
| IDIVERSITY NO. 1 1 1 1 1 1 |
+-----+
| COMPOSITE RMS FADE RATE: 0.00000 Hertz |
| IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT |
| FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds |
| CHANNEL NOISE <ON>, POWER IN dBm: -5.8188 RMS Voltage: 0.396402 |
| JAMMING OFF |
+-----+

TEST I-A-2

TYPE - MESSAGE

BW 600 TO 2800 Hz

S/N 12 dB

PATHS 1

TRANSLATION 0 Hz

GROUP I

DOCUMENT _____

GROUP II

DOCUMENT _____

GROUP III DATA RATE 2400 bps

DOCUMENT 9-23-86 8:45

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IRMS DOP(Hz)2 sid	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	0	0	0	0	0
ISIGNAL (dBm)	-1.32	-201.32	-201.32	-201.32	-201.32	-201.32
ISIGNAL (VRMS)	0.6655	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE <ON>, POWER IN dBm: -5.8188 RMS Voltage: 0.396402

JAMMING OFF

FROM

08 22 86 10:48 P. 1

23 1-10 100, 400, 600

III



DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER, BUILDING 3
300 WELSH ROAD
HORSHAM, PA 19044
(215) 857-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-A-3

TYPE - PREMESSAGE

BW 600 TO 2800 HzS/N 14 dBPATHS 1TRANSLATION 0 Hz

GROUP I S/F

GROUP II S/F

GROUP III

	S/F	DATA RATE
1	7	2400
2	5	2400
3	7	2400
4	5	2400
5	5	2400

twice the system went to group I

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz) 2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	0	0	0	0	0
ISIGNAL (dBm)	-0.88	-202.20	-202.20	-202.20	-202.20	-202.20
ISIGNAL (VRMS)	0.7002	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.00000 Hertz					
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds						
CHANNEL NOISE <ON>, POWER IN dBm:	-7.3774 RMS Voltage: 0.331289					
HAMMING-OFF						

TEST II-A-3

TYPE - MESSAGE

BW 600 TO 2800 HzS/N 14 dBPATHS 1TRANSLATION 0 Hz

GROUP I

DOCUMENT 9-23-86 8:56

GROUP II

DOCUMENT _____

GROUP III DATA RATE 2400 bpsDOCUMENT 9-23-86 9:04

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOF (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOF (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	-0.88	-202.20	-202.20	-202.20	-202.20	-202.20
SIGNAL (VRMS)	0.7002	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	ON	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.00000 Hertz					
IMPULSE NOISE OFF, PERIODIC	0.009 dB RE-PEAK OUTPUT					
FREQUENCY: 0.10000E+02 impulses/min PULSE WIDTH: 0.000100 seconds						
CHANNEL NOISE ON, POWER IN dBm	7.3774 RMS Voltage: 0.331289					
JAMMING OFF						

FROM

09/23/86 02:55 P. I G /



DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER, BUILDING 3
300 WELSH ROAD
HORSHAM, PA 19044
(215) 657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1

FROM

09/23/86 09:04 P. 1

63 247



DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER, BUILDING 3

300 WELSH ROAD

HORSHAM, PA 19044

(215) 657-6270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-A-4

TYPE - PREMESSAGE

BW 600 TO 2400 Hz

S/N 16 dB

PATHS 1

TRANSLATION 0 Hz

GROUP I S/F S,S,S,S,S

GROUP II S/F S,S,S,S,S

GROUP III		S/F	DATA RATE
1		<u>S</u>	<u>2400</u>
2		<u>F</u>	
3		<u>S</u>	<u>2400</u>
4		<u>F</u>	
5		<u>S</u>	<u>2400</u>

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IRMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	0	0	0	0	0
ISIGNAL (dBm)	0.57	202.77	202.77	202.77	202.77	202.77
ISIGNAL (VRMS)	0.7251	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	ON	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.00000 Hertz					
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 0.100000E+02 impulses/min	PULSE WIDTH: 0.000100 seconds					
CHANNEL NOISE <ON>, POWER IN dBm:	-9.0738 RMS Voltage: 0.272511					

TEST IV-A-4

TYPE - MESSAGE

BW 600 TO 2800 HzS/N 16 dBPATHS 1TRANSLATION 0 HzGROUP I S,S,S,S,SDOCUMENT 9-23-86 10:18GROUP II S,S,S,S,SDOCUMENT 9-23-86 10:09GROUP III DATA RATE 2400 bpsDOCUMENT 09-23-86 09:21

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 512	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
TDELAY (usec)	0	0	0	0	0	0
ISIGNAL (dBm)	-0.57	-202.77	-202.77	-202.77	-202.77	-202.77
ISIGNAL (VRMS)	0.7251	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
IDIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.00000 Hertz					
IMPULSE-NOISE-OFF-PERIODIC	0.000 dB RE PEAK-OUTPUT					
FREQUENCY: 0.100000E+02 impulses/min	PULSE WIDTH: 0.000100 seconds					
CHANNEL NOISE <ON> POWER IN dBm	-9.0738-RMS Voltage: 0.272511					
JAMMING OFF						

FROM

09/23/86 10:18 P. I 61



DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER BUILDING 3

300 WELSH ROAD

HORSHAM, PA 19044

(215) 657-6270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1

FROM

09/23/86 10:09 P. I

62



DELTA INFORMATION SYSTEMS, INC.

TELETYPE BUSINESS CENTER BUILDING 3
300 BELMONT ROAD
WILMINGTON, DE 19804
(302) 652-5200

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1

FROM

09/23/86 09:21 P. 1

63 2400



DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER, BUILDING 3

300 WELSH ROAD

HORSHAM, PA 19044

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-A-5

TYPE - PREMESSAGE

BW 600 TO 2800 Hz

S/N 22 dB

PATHS 1

TRANSLATION 0 Hz

GROUP I S/F

GROUP II S/F

GROUP III

	S/F	DATA RATE
1	S	4800
2	S	4800
3	S	4800
4	F	
5	S	4800

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IRMS DOP(Hz) 2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	0	0	0	0	0
ISIGNAL (dBm)	0.15	202.92	202.92	202.92	202.92	202.92
ISIGNAL (VRMS)	0.7612	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
IDIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.00000 Hertz					
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 0.100000E+02 impulses/min	PULSE WIDTH: 0.000100 seconds					
CHANNEL NOISE <ON>, POWER IN dBm:	-14.6514 RMS Voltage: 0.143385					
HAMMING OFF						

TEST II-A-5

TYPE - MESSAGE

BW 600 TO 2800 HzS/N 22 dBPATHS 1TRANSLATION 0 Hz

GROUP I

DOCUMENT _____

GROUP II S,S,S,S,SDOCUMENT 9-23-86 9:58GROUP III DATA RATE 4800 bpsDOCUMENT 9:23:86 9:31

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IRMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	0	0	0	0	0
ISIGNAL (dBm)	-0.15	-202.92	-202.92	-202.92	-202.92	-202.92
ISIGNAL (VRMS)	0.7612	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
IDIVERSITY NO.	1	1	1	1	1	1
ICOMPOSITE RMS FADE RATE:	0.00000 Hertz					
IIMPULSE NOISE OFF, PERIODIC	0.000 dB RE-PEAK-OUTPUT					
IFREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds						
ICHANNEL NOISE <ON>, POWER IN dBm:	-14.6514 RMS Voltage: 0.143385					
IJAMMING OFF						

FROM

09/23/86 09:58 P. 1



DELTA INFORMATION SYSTEMS, INC.
NORSHAM BUSINESS CENTER, BUILDING 3
300 WELSH ROAD
NORSHAM, PA 19444
(215) 677-5200

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1



DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER, BUILDING 3
300 WELSH ROAD
HORSHAM, PA 19044
(215) 657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-B-1

TYPE - PREMESSAGE

BW 600 TO 2800 Hz

S/N ∞ dB

PATHS 1

TRANSLATION 0 Hz

GROUP I S/F

GROUP II S/F

GROUP III

	S/F	DATA RATE
1	5	2400
2	3	2400
3	5	2400
4	5	4800
5	5	4800

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
VRMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
ISIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
ISIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	ON	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.00000 Hertz					
IMPULSE NOISE <ON>, RANDOM	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 0.100000E+03 impulses/min	PULSE WIDTH: 0.001000 seconds					
CHANNEL NOISE OFF, POWER IN (Bm):	-10.0000 RMS Voltage: 0.007746					
JAMMING OFF						

TEST II-13-1

TYPE - MESSAGE

BW 600 TO 2800 Hz

S/N -10 dB

PATHS 1

TRANSLATION 0 Hz

GROUP I

DOCUMENT _____

GROUP II

DOCUMENT _____

GROUP III DATA RATE 4800 bps

DOCUMENT 9-24-86 09:55

1 1 2400 "

9-24-86 09:00

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IRMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	0	0	0	0	0
ISIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
ISIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
IDIVERSITY NO.	1	1	1	1	1	1

I COMPOSITE RMS FADE RATE: 0.00000 Hertz

I IMPULSE NOISE <ON>, RANDOM 0.000 dB RE PEAK OUTPUT
I FREQUENCY: 0.100000E+03 impulses/min PULSE WIDTH: 0.001000 seconds

I CHANNEL NOISE OFF, POWER IN dBm: -10.0000 RMS Voltage: 0.007746

I JAMMING OFF



DELT A INFORMATION SYSTEMS, INC

HORSHAM BUSINESS CENTER BUILDING 3

300 WELSH ROAD

HORSHAM, PA 19044

(215) 657-5270

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TEST II-B-2

TYPE - PREMESSAGE

BW 600 TO 2870 Hz

S/N ∞ dB

PATHS /

TRANSLATION 0 Hz

GROUP I S/F S,S,S,S,S

GROUP II S/F S,S,S,F,S

GROUP III		S/F	DATA RATE
1		<u>S</u>	<u>2400</u>
2		<u>S</u>	<u>2400</u>
3		<u>S</u>	<u>2400</u>
4		<u>S</u>	<u>2400</u>
5		<u>F</u>	

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS-DOP(Hz)±2-sigma	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
TDELAY (usec)	0	0	0	0	0	0
TSIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
TSIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
TSIGNAL (ON/OFF)	ON	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE CON+ RANDOM 0.000 dB RF PEAK OUTPUT

FREQUENCY: 0.500000E+03 impulses/min PULSE WIDTH: 0.001000 seconds

CHANNEL NOISE OFF POWER IN dBm: -40.00000 RMS Volts/del: 0.007746

TRANSIT OFF

TEST M-B-2

TYPE - MESSAGE

BW 600 TO 2800 Hz

S/N 10 dB

PATHS 1

TRANSLATION 0 Hz

GROUP I

DOCUMENT 09-24-86 09:51

GROUP II

DOCUMENT 09-24-86 09:41

GROUP III DATA RATE 2400 bps

DOCUMENT 09-24-86 09:08

PATH NUMBER						
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP-(Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IRMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	0	0	0	0	0
ISIGNAL- (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
ISIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
IDIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.00000 Hertz					
IMPULSE NOISE <COND>, RANDOM	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 0.500000E+03 impulses/min	PULSE WIDTH: 0.001000 seconds					
CHANNEL NOISE OFF, POWER IN dBm:	-40.0000 RMS Voltage: 0.007746					
JAMMING OFF						

FROM

09/24/86 09:51 P. I G



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HORSHAM BUSINESS CENTER, BUILDING 3
300 WELSH ROAD
HORSHAM, PA 19044
(215) 657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1

FROM

09/24/86 03:41 P. I



DELTA INFORMATION SYSTEMS, INC.

HORNBECK BUSINESS CENTER BUILDING 3
300 BELMONT ROAD
HORNBECK, PA 15844
(412) 852-5899

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1



DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER BUILDING 3
300 WELSH ROAD
HORSHAM, PA 19044
(215) 657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-13 - 3

TYPE - PREMESSAGE

BW 600 TO 2800 HzS/N 10 dBPATHS 1TRANSLATION 0 HzGROUP I S/F S,S,S,S,SGROUP II S/F S,S,S,S,S

GROUP III		S/F	DATA RATE
1		F	<u>2400</u>
2		P	<u>2400</u>
3		P	<u>2400</u>
4		S	<u>2400</u>
5		S	<u>2400</u>

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IRMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	0	0	0	0	0
ISIGNAL (dBm)	-6.00	-200.00	-200.00	-200.00	-200.00	-200.00
ISIGNAL (VRMS)	0.3882	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	ON	OFF	OFF	OFF	OFF	OFF
UNIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE CONST RNDM: 0.000 dB RE PEAK OUTPUT

FREQUENCY: 0.500000E+03 impulses/min PULSE WIDTH: 0.001000 seconds

CHARACTER NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746

FLAMMING OFF

TEST II-B-3

TYPE - MESSAGE

BW 600 TO 2800 Hz

S/N ∞ dB

PATHS 1

TRANSLATION 0 Hz

GROUP I

DOCUMENT 69-24-86 10:05

GROUP II

DOCUMENT 09-24-86 09:30

GROUP III DATA RATE 2400 bps

DOCUMENT 09-24-86 09:20

	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LRMS DOP(Hz)2 SID	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	0	0	0	0	0
ISIGNAL (dBm)	-6.00	-200.00	-200.00	-200.00	-200.00	-200.00
ISIGNAL (VRMS)	0.3882	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
UNIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.00000	Hertz				
IMPULSE NOISE <ON>, RANDOM	0.000	dB RE PEAK OUTPUT				
FREQUENCY: 0.500000E+03 impulses/min	PULSE WIDTH: 0.001000	seconds				
CHANNEL NOISE OFF, POWER IN dBm:	-40.0000	RMS Voltage: 0.007746				
JAMMING OFF						

FROM

09/24/86 10:05 P. M.



DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER BUILDING 3
300 WELSH ROAD
HORSHAM PA 19044
(215) 657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1

FROM

09/24/86 09:30 P. I



DELTA INFORMATION SYSTEMS, INC.

HORNBECK BUSINESS CENTER, BUILDING 3
301 BELMONT ROAD
HORNBECK, PA 16044
(724) 654-3399

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1



FIDELITY INFORMATION SYSTEMS, INC.

MONSANTO BUSINESS CENTER, BUILDING 3

300 WELCH ROAD

HORSHAM, PA 19044

(215) 657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers,

TEST II-C-1

TYPE - PREMESSAGE

BW 600 TO 2800 HzS/N ∞ dBPATHS 2 equalTRANSLATION 0 Hz

GROUP I S/F

GROUP II S/F

GROUP III

	S/F	DATA RATE
1	F	
2	F	
3	F	
4	F	
5	F	

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
IRMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	1000	0	0	0	0
ISIGNAL (dBm)	-3.01	-3.01	-203.01	-203.01	-203.01	-203.01
ISIGNAL (VRMS)	0.5477	0.5477	0.0000	0.0000	0.0000	0.0000
ISIGNAL <ON/OFF>	<ON>	<ON>	OFF	OFF	OFF	OFF
IDIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 1.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -43.0103 RMS Voltage: 0.005477

JAMMING OFF

TEST II-C

TYPE - MESSAGE

BW 600 TO 2800 HzS/N ∞ dBPATHS 2 signalTRANSLATION 0 Hz

GROUP I

DOCUMENT _____

GROUP II

DOCUMENT _____

GROUP III DATA RATE 4800 bps (partial document only) DOCUMENT 09-23-86 11:09

2400 bps (partial document only) 09-23-86 11:14

	PATH-NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
VRMS-BDP(Hz)2-sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
SIGNAL (dBm)	-3.01	-3.01	-203.01	-203.01	-203.01	-203.01
ISIGNAL (VRMS)	0.5477	0.5477	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 1.00000 Hertz

IMPULSE-NOISE--OFF--PERIODIC----0.000-dB-PEAK-OUTPUT

FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL-NOISE--OFF--POWER-IN-dBm:--43.0103 RMS Voltage:-0.005477

JAMMING OFF

09 23 86 11:08 P. M.



DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER BUILDING 3
300 WELSH ROAD
HORSHAM, PA 19044
(215) 657-5270

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start of
text



The following is a list of various letters, numbers,



19 23 86 11:14 F. 1



DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER BUILDING 3

300 WELSH ROAD

HORSHAM, PA 19044

(215) 657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d f g h i j k l m n o r t u v w y z { } ! " ^ _

TEST IIC-2

TYPE - PREMESSAGE

BW 600 TO 2800 Hz

S/N ∞ dB

PATHS 2 3dB diff

TRANSLATION 0 Hz

GROUP I S/F S,S,S,S,S

GROUP II S/F

GROUP III	S/F	DATA RATE
1		
2		
3		
4		
5		

| PATH NUMBER
| -1- -2- -3- -4- -5- -6-
| MEAN DOP (Hz) 0.0000 1.0000 0.0000 0.0000 0.0000 0.0000
| RMS DOP(Hz)2 sis 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
| HDELAY (usec) 0 1000 0 0 0 0
| ISIGNAL (dBm) -1.76 -4.76 -203.61 -203.61 -203.61 -203.61
| ISIGNAL (VRMS) 0.6322 0.1476 0.0000 0.0000 0.0000 0.0000
| ISIGNAL-(ON/OFF) <ON> <ON> OFF OFF OFF OFF
| DIVERSITY NO. 1 1 1 1 1 1
| COMPOSITE RMS FADE RATE: 0.65132-Hertz
| IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
| FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds
| CHANNEL NOISE OFF, POWER IN dBm: -13.6077 RMS Volts/dB: 0.005113
| JAMMING OFF

TEST II - C - 2

TYPE - MESSAGE

BW 600 TO 2800 HzS/N ∞ dBPATHS 2 3dB differenceTRANSLATION 0 Hz

GROUP I

DOCUMENT 9-23-86 15:19

GROUP II

DOCUMENT _____

GROUP III DATA RATE _____ bps

DOCUMENT _____

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz) ^{2 sis}	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	1000	0	0	0	0
ISIGNAL (dBm)	-1.76	-4.76	-203.61	-203.61	-203.61	-203.61
ISIGNAL (VRMS)	0.6322	0.4476	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
IDIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.65132 Hertz

IMULSE-NOISE-OFF, PERIODIC-----0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE-OFF POWER IN dBm: -43.6022 RMS Voltage: 0.005113

JAMMING OFF

00-23-65 10:00 P. M.



DELTAC INFORMATION SYSTEMS, INC.
WORCESTER, MASSACHUSETTS 01652
TELETYPE 202-875-2000
TELETYPE 202-875-2001
TELETYPE 202-875-2002

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z . , - / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y ? ! " @ # \$ % * () - _ + = ; : " "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z . , - / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y ? ! " @ # \$ % * () - _ + = ; : " "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z . , - / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y ? ! " @ # \$ % * () - _ + = ; : " "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z . , - / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y ? ! " @ # \$ % * () - _ + = ; : " "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z . , - / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y ? ! " @ # \$ % * () - _ + = ; : " "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z . , - / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y ? ! " @ # \$ % * () - _ + = ; : " "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1

TEST I-C-3

TYPE - PREMESSAGE

BW 600 TO 2800 Hz

S/N ∞ dB

PATHS 2 6db difference

TRANSLATION 0 Hz

GROUP I S/F 5,5,5,5,5

GROUP II S/F

GROUP III

	S/F	DATA RATE
1	F	
2	F	
3	F	
4	F	
5	F	

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
RMS-DOP(Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
SIGNAL (dBm)	-0.97	-6.97	-203.98	-203.98	-203.98	-203.98
SIGNAL (VRMS)	0.6925	0.3471	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.27380 Hertz					
IMPULSE NOISE OFF-PERIODIC	0.000 dB-RE-PEAK-OUTPUT					
FREQUENCY: 0.100000E+02 impulses/min	PULSE WIDTH: 0.000100 seconds					
CHANNEL NOISE OFF-POWER IN dBm:	-43.9835 RMS Voltage: 0.004897					
FLAMMING OFF						

TEST ZC-3

TYPE - MESSAGE

BW 600 TO 2800 Hz

S/N ∞ dB

PATHS 2 Gdb difference

TRANSLATION 0 Hz

GROUP I

DOCUMENT 09-23-86 15:09

GROUP II

DOCUMENT _____

GROUP III DATA RATE 2400 bps ^{partial document}

DOCUMENT 09-23-86 11:21

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
IRMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FRELAY (usee)	0	1000	0	0	0	0
ISIGNAL (dBm)	-0.97	-6.97	-203.98	-203.98	-203.98	-203.98
ISIGNAL (VRMS)	0.6925	0.3471	0.0000	0.0000	0.0000	0.0000
HSIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.27380-Hertz					
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
FREQUENCY: $0.100000E+02$ impulses/min	PULSE WIDTH: 0.000100 seconds					
CHANNEL NOISE OFF, POWER IN dBm:	-43.9835 RMS Voltage: 0.004897					
JAMMING OFF						

FROM

03/26/86 15:04 P. I

G1



DELTA INFORMATION SYSTEMS, INC.

40944 BUSINESS CENTER BUILDING 3

300 WELLS ROAD

BROOKSHAM, PA 19034

(215) 687-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y z : ; * & \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y z : ; * & \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y z : ; * & \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y z : ; * & \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y z : ; * & \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y z : ; * & \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

3M

09/23/86 11:21 P. 1



DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER, BUILDING 3

300 WELSH ROAD

HORSHAM, PA 19044

(215) 657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o r q t u v w y z ! () { }

test
report

TEST II-C-4

TYPE - PREMESSAGE

BW 600 TO 2800 Hz

S/N ∞ dB

PATHS 2 9dB difference

TRANSLATION 0 Hz

GROUP I S/F

GROUP II S/F S,S,F,S,S,F

GROUP III

	S/F	DATA RATE
1	S	2400
2	S	2400
3	F	
4	F	
5	F	

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOF (Hz)	-0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
IRMS DOP (Hz) 2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	1000	0	0	0	0
ISIGNAL (dBm)	-0.51	-9.51	-204.76	-204.76	-204.76	-204.76
ISIGNAL (VRMS)	0.7300	0.2590	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
IDIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.10793 Hertz					
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 0.100000E+02 impulses/min	PULSE WIDTH: 0.000100 seconds					
CHANNEL NOISE OFF, POWER IN dBm:	-44.7642 RMS Voltage: 0.004476					
JAMMING OFF						

TEST II-C-4

TYPE - MESSAGE

BW 600 TO 2800 Hz

S/N 00 dB

PATHS 2 9dB difference

TRANSLATION 0 Hz

GROUP I

DOCUMENT _____

GROUP II

DOCUMENT 09-23-86 11:54

GROUP III DATA RATE 2400 bps

DOCUMENT 09-23-86 11:43

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
IRMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	1000	0	0	0	0
ISIGNAL (dBm)	-0.51	-9.51	-204.76	-204.76	-204.76	-204.76
ISIGNAL (VRMS)	0.7300	0.2590	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
IDIVERSITY NO.	1	1	1	1	1	1
COMPOSITE-RMS FADE-RATE:	0.10793 Hertz					
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 9+100000E+92 impulses/min	PULSE WIDTH:-0.000100 seconds					
CHANNEL NOISE OFF, POWER IN dBm:	-44.7642 RMS Voltage: 0.004476					
JAMMING OFF						

4-33-66 1154

DECTA INFORMATION SYSTEMS, INC.

WORSHAM BUSINESS CENTER 24000 N.W.

INTERSTATE

POSTAL REGULAR

REGULAR

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w y z , . / \ 2 3 4 5 6 7 8 9 & A B C D E F G H I J K L M N O P Q R S T U V W Y Z ; : ? ! { } - _ + = ; : " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w y z , . / \ 2 3 4 5 6 7 8 9 & A B C D E F G H I J K L M N O P Q R S T U V W Y Z ; : ? ! { } - _ + = ; : " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w y z , . / \ 2 3 4 5 6 7 8 9 & A B C D E F G H I J K L M N O P Q R S T U V W Y Z ; : ? ! { } - _ + = ; : " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w y z , . / \ 2 3 4 5 6 7 8 9 & A B C D E F G H I J K L M N O P Q R S T U V W Y Z ; : ? ! { } - _ + = ; : " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w y z , . / \ 2 3 4 5 6 7 8 9 & A B C D E F G H I J K L M N O P Q R S T U V W Y Z ; : ? ! { } - _ + = ; : " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w y z , . / \ 2 3 4 5 6 7 8 9 & A B C D E F G H I J K L M N O P Q R S T U V W Y Z ; : ? ! { } - _ + = ; : " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d



DELTA INFORMATION SYSTEMS, INC.

MORSHAM BUSINESS CENTER, BUILDING 3
300 WELSH ROAD
MORSHAM, PA 19044
(215) 657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-C-4

TYPE - PREMESSAGE

BW 600 TO 2800 HzS/N ∞ dBPATHS 3TRANSLATION 0 HzGROUP I S/F S,S,S,S,SGROUP II S/F F,F,F,F

GROUP III

	S/F	DATA RATE
1	<u>S</u>	<u>2800</u>
2	<u>F</u>	
3	<u>F</u>	
4	<u>F</u>	
5	<u>F</u>	

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOF (Hz)	0.0000	1.0000	0.5000	0.0000	0.0000	0.0000
RMS DOF (Hz) 2 side	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	1000	500	0	0	0
ISIGNAL (dBm)	-0.98	-9.98	-9.98	-200.98	-200.98	-200.98
ISIGNAL (VRMS)	0.6923	0.2456	0.2456	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<ON>	<ON>	<ON>	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.50937 Hertz					
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 0.100000E+02 impulses/min	PULSE WIDTH: 0.000100 seconds					
CHANNEL NOISE OFF, POWER IN dBm:	-10.9753 RMS Voltage: 0.006923					
JAMMING OFF						

TEST II-C-4

TYPE - MESSAGE

BW 600 TO 2800 Hz

S/N ∞ dB

PATHS 3

TRANSLATION 0 Hz

GROUP I

DOCUMENT 9-24-86 11:17

GROUP II

DOCUMENT _____

GROUP III DATA RATE 2400 bps

DOCUMENT 9-24-86 11:07

	1	2	3	4	5	6
MEAN DOP (Hz)	0.0000	1.0000	0.5000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	500	0	0	0
ISIGNAL (dBm)	-0.98	-9.98	-9.98	-200.98	-200.98	-200.98
ISIGNAL (VRMS)	0.6923	0.2456	0.2456	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	ON	ON	ON	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.50937 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT

FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -10.9753 RMS Voltage: 0.006923

JAMMING OFF



DELTA INFORMATION SYSTEMS, INC
BENSON BUSINESS CENTER, BUILDING 7
301 WELSH ROAD
MORRISVILLE, PA 19061
(215) 567-6870

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z : ; " " & \$ % * { } - _ + = : ; ; " "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z : ; " " & \$ % * { } - _ + = : ; ; " "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z : ; " " & \$ % * { } - _ + = : ; ; " "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z : ; " " & \$ % * { } - _ + = : ; ; " "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z : ; " " & \$ % * { } - _ + = : ; ; " "

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

192500Z 11 NOV 71

08-24-26 11-07 0 1

S 27M



DELTAC INFORMATION OVERSIGHT, INC.

10000 UNIVERSITY DR. SUITE 1000

300 WELSH ROAD

REDWOOD CITY, CA 94063

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This code is purposely typed close to the top of the page. Some transmission methods require a short header. A short code is sufficient.

THE FOLLOWING IS A LIST OF VARIOUS LETTERS, NUMBERS, AND SYMBOLS WHICH CAN BE COUNTED AS ONE CHARACTER EACH. THE LETTERS ARE IN THE ORDER: A B C D E F G H I J K L M N O P Q R S T U V W X Y

THE FOLLOWING IS A LIST OF VARIOUS LETTERS, NUMBERS, AND SYMBOLS WHICH CAN BE COUNTED AS ONE CHARACTER EACH. THE LETTERS ARE IN THE ORDER: A B C D E F G H I J K L M N O P Q R S T U V W X Y

THE FOLLOWING IS A LIST OF VARIOUS LETTERS, NUMBERS, AND SYMBOLS WHICH CAN BE COUNTED AS ONE CHARACTER EACH. THE LETTERS ARE IN THE ORDER: A B C D E F G H I J K L M N O P Q R S T U V W X Y

THE FOLLOWING IS A LIST OF VARIOUS LETTERS,

TEST II-C-5

TYPE - PREMESSAGE

BW 600 TO 2800 HzS/N ∞ dBPATHS 2 12 dB differenceTRANSLATION 0 HzGROUP I S/F S,S,S,S,SGROUP II S/F S,S,S,S,S

GROUP III

	S/F	DATA RATE
1	S	2400
2	S	2400
3	S	2400
4	S	2400
5	S	2400

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN-DOP (Hz)	0.0000	1.0000	-0.0000	0.0000	0.0000	0.0000
IRMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
TDELAY (usec)	0	1000	0	0	0	0
TSIGNAL (dBm)	-9.27	-12.27	-204.25	-204.25	-204.25	-204.25
TSIGNAL (VRMS)	0.7513	0.1887	0.0000	0.0000	0.0000	0.0000
TSIGNAL (ON/OFF)	(ON)	(ON)	OFF	OFF	OFF	OFF
TDIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.04331 Hertz					
IMPULSE NOISE OFF, PERIODIC FREQUENCY:	0.000 dB RE PEAK OUTPUT 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 second					
CHANNEL NOISE OFF, POWER IN dBm:	-44.2493 RMS Volts/dB: 0.004749					
TAINTING OFF						

TEST II-C-5

TYPE - MESSAGE

BW 600 TO 2800 Hz

S/N ∞ dB

PATHS 2 12 dB difference

TRANSLATION 0 Hz

GROUP I

DOCUMENT 9-23-86 14

GROUP II

DOCUMENT 9-23-86 13

GROUP III DATA RATE 2400 bps

DOCUMENT 09-23-86 11²/4

	PATH NUMBER					
	1	2	3	4	5	6
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sid	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PRELAY (usec)	0	1900	0	0	0	0
SIGNAL (dBm)	-0.27	-12.27	-204.25	-204.25	-204.25	-204.25
SIGNAL (VRMS)	0.7513	0.1887	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	ON	ON	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.04331 Hertz					
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
FREQUENCY: -9.10000E+02 impulses/min	PULSE WIDTH: -0.000100 seconds					
CHANNEL NOISE OFF, POWER IN dBm:	-44.2493 RMS Voltage: 0.004749					
SHAMMING OFF						



DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER BUILDING 3
370 WELSH ROAD
HORSHAM PA 19044
(215) 657-6270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

DCC/I E. I.

FROM

03/29/86 13:37 P. {



DELTA INFORMATION SYSTEMS, INC.

1000 BUSINESS CENTER BUILDING
30 BELASH ROAD
MORRISON, PA 15066
214-772-2700

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. {

FROM

08 E3 B6 11:25 P.:

to 2400 *not*



DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER, BUILDING 3
300 WELSH ROAD
HORSHAM, PA 19044
(215) 657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-C-6

TYPE - PREMESSAGE

BW 600 TO 2800 HZS/N - dBPATHS 2 15dB diffnreTRANSLATION 0 HzGROUP I S/F S, S, S, S, SGROUP II S/F S, S, S, S, S

GROUP III

	S/F	DATA RATE
1		
2		
3		
4		
5		

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
TDELAY (usec)	0	1000	0	0	0	0
FSIGNAL (dBm)	-0.14	-15.14	-200.40	-200.40	-200.40	-200.40
ISIGNAL (VRMS)	0.7626	0.1356	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.01787 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.10000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -40.4099 RMS Voltage: 0.007397

HAMMING OFF

TEST II-C-6

TYPE - MESSAGE

BW 600 TO 2800 HzS/N ∞ dBPATHS 2 15dB diffTRANSLATION 0 Hz

GROUP I

DOCUMENT 7-23-86 14:37

GROUP II

DOCUMENT 9-23-86 13:49

GROUP III DATA RATE _____ bps

DOCUMENT _____

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
ISIGNAL (dBm)	-0.14	-15.14	-200.40	-200.40	-200.40	-200.40
ISIGNAL (VRMS)	0.7626	0.1356	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	ON	ON	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.01787 HertzIMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUTFREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 secondsCHANNEL NOISE OFF, POWER IN dBm: -40.4009 RMS Voltage: 0.007397

JAMMING OFF



DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER BUILDING 3

390 WELSH ROAD

HORSHAM PA 19044

(215) 657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

03/23/86 13:49 P. I

3.23.60 .31+9



DELTA INFORMATION SYSTEMS, INC.

101010 BUSINESS CENTER, SUITE 200+

300 BELMONT ROAD

NORMAL, IL 61760

217-227-2779

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1

TEST Z-C-7

TYPE - PREMESSAGE

BW 600 TO 2800 HzS/N - dBPATHS 2 18dB diffuseTRANSLATION 0 HzGROUP I S/F S,S,S,S,SGROUP II S/F S,S,S,S,S

GROUP III

	S/F	DATA RATE
<u>1</u>		
<u>2</u>		
<u>3</u>		
<u>4</u>		
<u>5</u>		

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP (Hz) 2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
ISIGNAL (dBm)	-0.07	-18.07	-200.47	-200.47	-200.47	-200.47
ISIGNAL (VRMS)	0.7685	0.0968	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
UNIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.00756 Hertz					
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 0.100000E+02 impulses/min	PULSE WIDTH: 0.000100 seconds					
CHANNEL NOISE OFF, POWER IN dBm:	-40.4692 RMS Voltage: 0.007339					
JAMMING OFF						

TEST X-C -7

TYPE - MESSAGE

BW 600 TO 2800 HzS/N ∞ dBPATHS 2 18 dB differenceTRANSLATION 0 Hz

GROUP I

DOCUMENT 09-23-86 14:13

GROUP II

DOCUMENT 09-23-86 14:10

GROUP III DATA RATE _____ bps

DOCUMENT _____

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	1.0000	0.0000	0.0000	0.0000	0.0000
VRMS DOP(Hz)2 SID	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
ISIGNAL (dBm)	-0.07	-18.07	-200.47	-200.47	-200.47	-200.47
ISIGNAL (VRMS)	0.7685	0.0968	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	(ON)	(ON)	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1
COMPOSITE-RMS-FADE-RATE:	0.00756-Hertz					
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
FREQUENCY: $0.109990E+92$ impulses/min	PULSE WIDTH: 0.000100-seconds					
CHANNEL NOISE OFF, POWER IN dBm:	-40.4692 RMS Volts/dB: 0.007339					
JAMMING OFF						

FROM

09/26/86 14:13 P. I G 1



DELTA INFORMATION SYSTEMS, INC

HORSHAM BUSINESS CENTER BUILDING 3
300 NELSH ROAD
HORSHAM PA 19044
(215) 657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1

FROM

03/23/86 14:00 P. I



DELTA INFORMATION SYSTEMS, INC.

NORMAN BUSINESS CENTER BUILDING 3

301 NE 57TH ROAD

NORMAN, OK 73069

(405) 232-5200

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1

TEST H-C-89

TYPE - PREMESSAGE

BW 600 TO 2800 HzS/N ∞ dBPATHS 3TRANSLATION 0 HzGROUP I S/F S,S,S,S,SGROUP II S/F S,S,S,f,f

GROUP III		S/F	DATA RATE
1	<u>S</u>		<u>2400</u>
2	<u>F</u>		
3	<u>F</u>		
4	<u>F</u>		
5	<u>F</u>		

	PATH NUMBER					
MEAN DOP (Hz)	0.0000	1.0000	-0.5000	0.0000	0.0000	0.0000
RMS DOP (Hz) (std)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	500	0	0	0
INTERNAL (dBm)	-0.52	-12.52	-12.52	-202.01	-202.01	-202.01
ISIGNAL (VURMS)	0.7229	0.1933	0.1833	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	ON	ON	ON	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.50169 Hertz

TRANSESS NOISE (OFF + PERIODIC) = 0.000 dB PE PEF OUTPUT
FREQUENCY: 0.100000E+02 impulse/min PULSE WIDTH: 0.000100 sec

TRANSESS NOISE (OFF + POWER) IN dBm: -42.0064 RMS Volts/del: 0.006148

TRANSESS ON

TEST II-C-89

TYPE - MESSAGE

BW 600 TO 2800 HzS/N 00 dBPATHS 3TRANSLATION 0 H:

GROUP I

DOCUMENT 09-24-86

GROUP II

DOCUMENT 09-24-86GROUP III DATA RATE 2400 bpsDOCUMENT 09-24-86

	PATH NUMBER				
	-1-	-2-	-3-	-4-	-5-
MEAN DOP (Hz)	0.0000	1.0000	0.5000	0.0000	0.0000
RMS DOP(Hz) 2.513	0.0000	0.0000	0.0000	0.0000	0.0000
RELAY (usec)	0	1000	500	0	0
ISIGNAL (dBm)	-0.52	-12.52	-12.52	-202.01	-202.01
ISIGNAL (VRMS)	0.7299	0.1833	0.1833	0.0000	0.0000
ISIGNAL (ON/OFF)	<ON>	<ON>	<ON>	OFF	OFF
DIVERSITY NO.	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.50169 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RF PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 sec

CHANNEL NOISE OFF, POWER IN (Pm): -12.0964 RMS Voltage: 0.006148

JAMMING OFF

FROM

03/24/86 12:10 P. M.



DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER BUILDING 3
300 WELSH ROAD
HORSHAM, PA 19046
(215) 657-5870

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P.:

FROM

08/24/88 11:53 P. M.



DELTA INFORMATION SYSTEMS, INC.

1000 N. BROADWAY - SUITE 1000

CHICAGO, IL 60610

(312) 634-5200

FAX: (312) 634-5201

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! ? @ # \$ % & * { } - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! ? @ # \$ % & * { } - _ + = : ; " '

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! ? @ # \$ % & * { } - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! ? @ # \$ % & * { } - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! ? @ # \$ % & * { } - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c

08/24/88 P. M.

FROM

09-24-86 11:52 P.:

G 3 - 2



DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER BUILDING 3
300 WELSH ROAD
HORSHAM PA 19044
(215) 657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-D-1

TYPE - PREMESSAGE

BW 600 TO 2800 HzS/N ∞ dBPATHS 1TRANSLATION 0 HzGROUP I S/F S,S,S,S,SGROUP II S/F S,S,F,S,S

GROUP III

	S/F	DATA RATE
1	F	
2	F	
3	F	
4	F	
5	F	
G	S	2400

	-1-	-2-	-3-	-4-	-5-	-6-	PATH NUMBER
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00
RMS DOP(Hz) 2 std	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.00
DELAY (usec)	0	0	0	0	0	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00	-200.
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000	0.00
SIGNAL (ON/OFF)	(ON)	OFF	OFF	OFF	OFF	OFF	(
DIVERSITY NO.	1	1	1	1	1	1)
COMPOSITE RMS FADE RATE:	0.00000 Hertz						
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT						
FREQUENCY: 0.100000E+02 impulses/min	PULSE WIDTH: 0.000100 second						
CHANNEL NOISE OFF, POWER IN dBm:	-40.0000 RMS Volts						dc: 0.007746
HAMMING OFF							

TEST I-D-1

TYPE - MESSAGE

BW 600 TO 2800 HZ

S/N ∞ dB

PATHS 1

TRANSLATION 0 Hz

GROUP I

DOCUMENT 09-24-86 10:

GROUP II

DOCUMENT 09-24-86 10:

GROUP III DATA RATE 2400 bps

DOCUMENT 09-24-86 10:3

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz/2 sid)	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
ISIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
ISIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	ON	OFF	OFF	OFF	OFF	OFF
IDIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 second

CHANNEL NOISE OFF, POWER IN dBm: -10.0000 RMS Voltage: 0.007746

JAMMING OFF



DELTA INFORMATION SYSTEMS, INC

JARSHAM BUSINESS CENTER BUILDING 3
300 WELSH ROAD
MORSHAM PA 19046
215-557-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1

FROM

03/24/86 10:15 P.M.



DETA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER BUILDING 3

30 WESTWOOD

HORSHAM, PA 19044

215-443-1200

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z . / 1 2 3 4 5
6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y
! ? + \$ & * () - _ + = : ; " !

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z . / 1 2 3 4 5
6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y
! ? + \$ & * () - _ + = : ; " !

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z . / 1 2 3 4 5
6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y
! ? + \$ & * () - _ + = : ; " !

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z . / 1 2 3 4 5
6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y
! ? + \$ & * () - _ + = : ; " !

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z . / 1 2 3 4 5
6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y
! ? + \$ & * () - _ + = : ; " !

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z . / 1 2 3 4 5
6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y
! ? + \$ & * () - _ + = : ; " !

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d



DEITA INFORMATION SYSTEMS INC
HORSHAM BUSINESS CENTER, BUILDING 2
200 WISER ROAD
HORSHAM PA 19044
(215) 657-5270

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This is a document prepared for checking facsimile transmission over radio. Since radio channel parameters may change over the transmission of one document, this may be filled with text in order to observe the effect of any changes.

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 ! @ # \$ % & * () - + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 ! @ # \$ % & * () - + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 ! @ # \$ % & * () - + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 ! @ # \$ % & * () - + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 ! @ # \$ % & * () - + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 ! @ # \$ % & * () - + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 ! @ # \$ % & * () - + = : ; " '

TEST II-E-1

TYPE - PREMESSAGE

BW 600 TO 2800 HzS/N ∞ dBPATHS 1TRANSLATION -75 Hz

GROUP I S/F

GROUP II S/F S,F,S,F,F

GROUP III		S/F	DATA RATE
1			
2			
3			
4			
5			

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	-75.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	ON	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT

FREQUENCY: 0.10000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE--OFF--POWER-IN-dBm: -40.0000 RMS Voltage: 0.007746

JAMMING OFF

TEST E-E-1

TYPE - MESSAGE

BW 600 TO 2800 Hz

S/N ∞ dB

PATHS 1

TRANSLATION -75 Hz

GROUP I

DOCUMENT _____

GROUP II

DOCUMENT 09-23-86 16

GROUP III DATA RATE _____ bps

DOCUMENT _____

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	-75.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (-dBm)	-0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	ON	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT

FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746

JAMMING-OFF

THE WISDOM OF THE EARTH

The time scale and times are written above. Times are not
part of the transmitted text.

This is a document of record for the following transaction:
RECEIVED BY THE COMMISIONER OF THE STATE OF CALIFORNIA, THIS DAY
OF MAY, IN THE YEAR OF CHRIST ONE THOUSAND EIGHT HUNDRED EIGHTY-THREE.

...that is specifically applied when the line goes off the page. Some horizontal dimensionality is also reflected after the Thomas' overtaking order has been tested. This where a vertical test is performed.

The following is a list of various military numbers, and names which can be found on any identification tag: 300, 400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2200, 2300, 2400, 2500, 2600, 2700, 2800, 2900, 3000, 3100, 3200, 3300, 3400, 3500, 3600, 3700, 3800, 3900, 4000, 4100, 4200, 4300, 4400, 4500, 4600, 4700, 4800, 4900, 5000, 5100, 5200, 5300, 5400, 5500, 5600, 5700, 5800, 5900, 6000, 6100, 6200, 6300, 6400, 6500, 6600, 6700, 6800, 6900, 7000, 7100, 7200, 7300, 7400, 7500, 7600, 7700, 7800, 7900, 8000, 8100, 8200, 8300, 8400, 8500, 8600, 8700, 8800, 8900, 9000, 9100, 9200, 9300, 9400, 9500, 9600, 9700, 9800, 9900.

The following is a list of various breeds of horses
and ponies which can be found in North America.

The following is a list of various books, documents, and services which can be found on many typewriters: a-c
e-f-g-h-i-j-k-l-m-n-o-p-q-r-s-t-u-v-w-x-y-z

The following is a list of various index numbers and symbols which can be used in any table.

The following is a list of places where, names, and activities which can be found on each location.

The following is a list of various subjects, names, and events which can be used as many topics for a short story.

The following is a list of various types of numbers and symbols which can be issued by the U.S. Post Office.

TEST II-E-2

TYPE - PREMESSAGE

BW 600 TO 2850 HZS/N ∞ dBPATHS 1TRANSLATION 75 HzGROUP I S/F S,S,S,S,SGROUP II S/F S,f,f,f,f

GROUP III	S/F	DATA RATE
1	_____	_____
2	_____	_____
3	_____	_____
4	_____	_____
5	_____	_____

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	75.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz) (512)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RELAY (usec)	0	0	0	0	0	0
ISIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
ISIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL CONVERGE	CON.	OFF	OFF	OFF	OFF	OFF
UNIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE	0.00000 Hertz					
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
FREQUENCY: $0.100000E+02$ impulses/min PULSE WIDTH: 0.000100 seconds						
CHANNEL NOISE OFF, POWER TH (dBm): -100.0000 RMS FOLD (dB): 0.007746						
CHIRPING OFF						

ND-A198 894

RADIO FAXSIMILE VOLUME 2 TEST RESULTS(U) DELTA
INFORMATION SYSTEMS INC HORSHAM PA D BODSON MAY 87
NCS-TIB-87-18-UOL-2 DCA100-87-C-0078

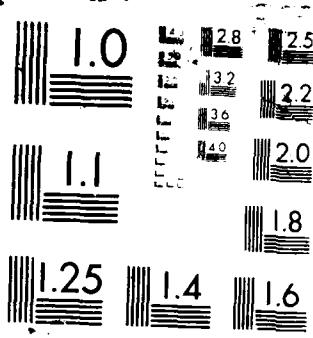
2/2

UNCLASSIFIED

F/G 25/2

ML

END
DATE
11/88



TEST I-E-2

TYPE - MESSAGE

BW 600 TO 2800 Hz

S/N ∞ dB

PATHS 1

TRANSLATION 75 Hz

GROUP I

DOCUMENT 09-23-86 15:37

GROUP II

DOCUMENT 09-23-86 15:53

GROUP III DATA RATE _____ bps

DOCUMENT _____

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	75.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IRMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
ISIGNAL (dBm)	-0.00	-200.00	-200.00	-200.00	-200.00	-200.00
ISIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
IDIVERSITY NO.	1	1	1	1	1	1
ICOMPOSITE RMS FADE RATE:	0.00000 Hertz					
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds						
CHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746						
HAMMING-OFF						

FROM

09/28/86 15:37 P. I.



DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER BUILDING 3
300 WELSH ROAD
HORSHAM PA 19044
(215) 657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1

RECEIVED
U.S. GOVERNMENT PRINTING OFFICE

the date and time are indicated above. They are not
part of the permanent record.

This is a rough draft of the communication
headlines which will be used in the news
bulletin. It is not intended to be published
until it has been checked by the news editor.

This will be the copy sent to the news
page. Some changes may have been made since
the headlines were first copied. This is just
the way it was written.

The following is a list of symbols which
are often used in news copy. They are
not all included in this list.

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not all included in this list.

TEST I-E-3

TYPE - PREMESSAGE

BW 600 TO 2800 Hz

S/N ∞ dB

PATHS 1

TRANSLATION -32 Hz

GROUP I S/F

GROUP II S/F S,S,S,S,S

GROUP III	S/F	DATA RATE
1	_____	_____
2	_____	_____
3	_____	_____
4	_____	_____
5	_____	_____

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	-32,0000	0.0000	0.0000	0.0000	0.0000	0.0000
IRMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	0	0	0	0	0
ISIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
ISIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<UND>	OFF	OFF	OFF	OFF	OFF
IDIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.00000 Hertz					
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds						
CHANNEL NOISE OFF, POWER IN dBm: -10.0000 RMS Voltage: 0.007746						
CHAMMING OFF						

TEST X-E

TYPE - MESSAGE

BW 600 TO 2800 Hz

S/N -∞ dB

PATHS 1

TRANSLATION -32 Hz

GROUP I

DOCUMENT _____

GROUP II

DOCUMENT 09-23-86 16:12

GROUP III DATA RATE 4800 bps

DOCUMENT 09-23-86 17:¹²

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	-32.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IRMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	0	0	0	0	0
ISIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
ISIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	ON	OFF	OFF	OFF	OFF	OFF
IDIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT

FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -10.0000 RMS Volts: 0.007746

JAMMING OFF

FROM

03/23/86 16:12 P. 1



DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER, BUILDING 3

300 WELSH ROAD

HORSHAM, PA 19044

(215) 682-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1

FROM

09-23-86 17:15 E. :



DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER BUILDING 3
300 WELSH ROAD
HORSHAM PA 19044
(215) 657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y 2 ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST Z-E-4

TYPE - PREMESSAGE

BW 600 TO 2800 Hz

S/N ∞ dB

PATHS 1

TRANSLATION 16 Hz

GROUP I S/F

GROUP II S/F S,S,S,S,S

GROUP III	S/F	DATA RATE
1	<u>S</u>	<u>4800</u>
2	<u>S</u>	<u>4800</u>
3	<u>S</u>	<u>4800</u>
4	<u>S</u>	<u>4800</u>
5	<u>S</u>	<u>4800</u>

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	16.0000	0.0000	0.0000	0.0000	0.0000	0.0000
!RMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
!DELAY (usec)	0	0	0	0	0	0
!SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
!SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
!SIGNAL (ON/OFF)	(ON)	OFF	OFF	OFF	OFF	OFF
!DIVERSITY NO.	1	1	1	1	1	1
!COMPOSITE RMS FADE RATE:	0.00000 Hertz					
!IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
! FREQUENCY: 0.100000E+02 impulses/min	PULSE WIDTH: 0.000100 seconds					
!CHANNEL NOISE OFF, POWER IN dBm:	-40.0000 RMS Voltage: 0.007746					
!JAMMING OFF						

TEST Z-E-4

TYPE - MESSAGE

BW 600 TO 2800 Hz

S/N 00 dB

PATHS 1

TRANSLATION 16 Hz

GROUP I

DOCUMENT _____

GROUP II

DOCUMENT 09-23-86 16:23

GROUP III DATA RATE 4800 bps

DOCUMENT 08-23-86

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	16.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IRMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	0	0	0	0	0
ISIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
ISIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<OND>	OFF	OFF	OFF	OFF	OFF
IDIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.00000 Hertz					
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 0.100000E+02 impulses/min	PULSE WIDTH: 0.000100 seconds					
CHANNEL NOISE OFF, POWER IN dBm:	-40.0000 RMS Voltage: 0.007746					
JAMMING OFF						

FROM

09/23/86 16:23 P. 1



DELTA INFORMATION SYSTEMS, INC.
HORSHAM BUSINESS CENTER, BUILDING 3
300 WELSH ROAD
HORSHAM, PA 19044
(215) 677-5200

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1



DELTA INFORMATION SYSTEMS INC

HORSHAM BUSINESS CENTER BUILDING 3
300 WELSH ROAD
HORSHAM, PA 19044
215/657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-E-5

TYPE - PREMESSAGE

BW 600 TO 2800 Hz

S/N ∞ dB

PATHS 1

TRANSLATION 7 Hz

GROUP I S/F

GROUP II S/F S,S,S,S,S

GROUP III

	S/F	DATA RATE
1	<u>S</u>	<u>1700</u>
2	<u>S</u>	<u>4800</u>
3	<u>S</u>	<u>4800</u>
4	<u>S</u>	<u>4800</u>
5	<u>S</u>	<u>4800</u>

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	7.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 si.	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	(ON)	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.00000 Hertz					
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 0.100000E+02 impulses/min	PULSE WIDTH: 0.000100 seconds					
CHANNEL NOISE OFF, POWER IN dBm:	-40.0000 RMS Voltage: 0.007746					
JAMMING OFF						

TEST II-E-5

TYPE - MESSAGE

BW 600 TO 2800 Hz

S/N 0 dB

PATHS 1

TRANSLATION 7 Hz

GROUP I

DOCUMENT _____

GROUP II

DOCUMENT 09-23-86 16:33

GROUP III DATA RATE 4800 bps

DOCUMENT 09-23-86 16:43

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	7.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IRMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	0	0	0	0	0
ISIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
ISIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
IDIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.00000 Hertz

IMPULSE NOISE OFF, PERIODIC 0.000 dB RE PEAK OUTPUT

FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746

JAMMING OFF

FROM

03/23/86 16:33 P. I



DELTA INFORMATION SYSTEMS, INC.
HORSHAM BUSINESS CENTER, BUILDING 1
300 WELSH ROAD
HORSHAM, PA 19044
(215) 677-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1



DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER BUILDING 3
300 WELSH ROAD
HORSHAM, PA 19044
(215) 657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST II-E-6

TYPE - PREMESSAGE

BW 600 TO 2800 HzS/N ∞ dBPATHS 1TRANSLATION +10 Hz

GROUP I S/F

GROUP II S/F

GROUP III

	S/F	DATA RATE
1	T	<u>7800</u>
2	S	<u>4800</u>
3	S	<u>4800</u>
4	S	<u>4800</u>
5	S	<u>4800</u>

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	10.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IRMS DOP(Hz)2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	0	0	0	0	0
ISIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
ISIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
IDIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.00000 Hertz					
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 0.100000E+02 impulses/min	PULSE WIDTH: 0.000100 seconds					
CHANNEL NOISE OFF, POWER IN dBm:	-40.0000 RMS Voltage: 0.007746					
JAMMING OFF						

TEST II-E-6

TYPE - MESSAGE

BW 600 TO 2850 HzS/N ∞ dBPATHS 1TRANSLATION 10 Hz

GROUP I

DOCUMENT _____

GROUP II

DOCUMENT _____

GROUP III DATA RATE 4800 bpsDOCUMENT 09-23-86

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	10.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	0.00	-200.00	-200.00	-200.00	-200.00	-200.00
SIGNAL (VRMS)	0.7746	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.00000 Hertz					
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds						
CHANNEL NOISE OFF, POWER IN dBm: -40.0000 RMS Voltage: 0.007746						
JAMMING OFF						



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST III - C - 1

TYPE - PREMESSAGE

21.5

BW 600 TO 2800 Hz

S/N 44 dB

PATHS 2

TRANSLATION 7 Hz

GROUP I S/F S, S, S, S, S

GROUP II S/F S, S, S, S, S

GROUP III

	S/F	DATA RATE
1	<u>S</u>	<u>2400</u>
2	<u>F</u>	
3	<u>S</u>	<u>2400</u>
4	<u>F</u>	
5	<u>S</u>	<u>2400</u>

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	7.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz) 2 std	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RELAY <usec>	0	1000	0	0	0	0
SIGNAL (dBm)	-0.43	-12.43	-200.43	-200.43	-200.43	-200.43
SIGNAL (VRMS)	0.7376	0.1853	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	(ON)	(ON)	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	-0.06822-Hertz					
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 9.100000E+02 impulses/min	PULSE WIDTH: 0.000100 seconds					
CHANNEL NOISE CON:, POWER IN dBm:	-14.4254 RMS Voltage: 0.147166					
JAMMING OFF						

TEST III-C-I

BW 600 TO 2800 Hz

PATHS 2

TYPE - MESSAGE

21.5

S/N 44 dB

TRANSLATION 7 Hz

GROUP I

DOCUMENT 09-24-86 13:53

GROUP II

DOCUMENT 09-24-86 14:05

GROUP III DATA RATE _____ bps

DOCUMENT 09-24-86 14:15

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	7.0000	8.0000	0.0000	0.0000	0.0000	0.0000
IRMS DOP(Hz)2 sid	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	1000	0	0	0	0
ISIGNAL-(dBm)	-0.43	-12.43	-200.43	-200.43	-200.43	-200.43
ISIGNAL (VRMS)	0.7376	0.1853	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
IDIVERSITY-NO.	1	1	1	1	1	1
ICOMPOSITE RMS FADE RATE:	0.06822 Hertz					
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 0.100000E+02 impulses/min	PULSE WIDTH: 0.000100 seconds					
CHANNEL NOISE <OND>, POWER IN dBm:	-14.4254 RMS Voltage: 0.147166					
JAMMING OFF						



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1

FROM

09/24/86 {4:85 P. }



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10101 N. MICHIGAN AVENUE

SUITE 1000

CHICAGO, IL 60611

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TEST III-C-2

TYPE - PREMESSAGE

19.5

BW 600 TO 2800 Hz

S/N +2 dB

PATHS 2

TRANSLATION 16 Hz

GROUP I S/F S,S,S,S,S

GROUP II S/F S,S,S,S,S

GROUP III

	S/F	DATA RATE
1	<u>S</u>	<u>2400</u>
2	<u>F</u>	
3	<u>F</u>	
4	<u>F</u>	
5	<u>F</u>	

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	16.0000	17.0000	0.0000	0.0000	0.0000	0.0000
RMS-BDP4Hz>2-sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
SIGNAL (dBm)	-0.66	-10.66	-201.08	-201.08	-201.08	-201.08
SIGNAL (VRMS)	0.7182	0.2271	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.12303 Hertz

IMPULSE-NOISE - OFF, -PERIODIC - 0.000 dB RE PEAK OUTPUT

FREQUENCY: 0.100000E+02 impulses/min PULSE WIDTH: 0.000100 seconds

CHANNEL NOISE <OND>, POWER IN dBm: -12.6562 RMS Voltage: 0.180413

JAMMING OFF

TEST M-C-2

BW 600 TO 2800 Hz

PATHS 2

TYPE - MESSAGE

19.5

S/N 42 dB

TRANSLATION 16 Hz

GROUP I

DOCUMENT 09-24-86 14:46

GROUP II

DOCUMENT 9-24-85 14:37

GROUP III DATA RATE 2400 bps

DOCUMENT 9-24-85 14:33

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	16.0000	17.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz)2 std	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
ISIGNAL (dBm)	-0.66	-10.66	-201.98	-201.08	-201.08	-201.08
ISIGNAL (VRMS)	0.7182	0.2271	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	(OND)	(OND)	OFF	OFF	OFF	OFF
PIIVERSITY-NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.12303 Hertz					
IMPULSE NOISE OFF, PERIODIC	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 0.100000E+02 impulses/min	PULSE WIDTH: 0.000100 seconds					
CHANNEL NOISE (OND), POWER IN dBm:	-12.6562 RMS Voltsdc: 0.180413					
JAMMING OFF						



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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1



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SINCE 1962

DISASTER RECOVERY

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TELETYPE

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d e f g h i j k l m n o p q r s t v y x z , . / { } 2 3 4 5 6 7 8 9 8 A B C D E F G H I J K L M N O P Q R S T V Y X Z 8 ! # \$ % ^ & { } - _ + = ; : " '

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300 WELSH ROAD

HORSHAM PA 19044

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST III -C- 3

BW 600 TO 2800 Hz

TYPE - PREMESSAGE

19.5

S/N +2 dB

PATHS 2

TRANSLATION 16 Hz

GROUP I S/F S,S,S,S,S

GROUP II S/F S,S,S,S,S

GROUP III

	S/F	DATA RATE
1	F	
2	F	
3	P	
4	P	
5	F	

	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	16.0000	17.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz) 2 sis	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	1000	0	0	0	0
SIGNAL (dBm)	-0.66	-10.66	-201.08	-201.08	-201.08	-201.08
SIGNAL (VRMS)	0.7182	0.2271	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1

COMPOSITE RMS FADE RATE: 0.12303 Hertz

IMPULSE NOISE <OND>, RANDOM 0.000 dB RE PEAK OUTPUT

FREQUENCY: 0.500000E+03 impulses/min PULSE WIDTH: 0.001000 seconds

CHANNEL NOISE <OND>, POWER IN dBm: -12.6562 RMS Voltage: 0.180413

JAMMING OFF

TEST M-C-3

TYPE - MESSAGE

BW 600 TO 2800 HzS/N 12 dBPATHS 2TRANSLATION 16 Hz

GROUP I

DOCUMENT 9-24-86 15:01

GROUP II

DOCUMENT 9-24-86 15:15GROUP III DATA RATE 2400 bpsDOCUMENT 9-24-86 15:34

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	16.0000	17.0000	0.0000	0.0000	0.0000	0.0000
IRMS-DOP(Hz)2 sid	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
IDELAY (usec)	0	1000	0	0	0	0
ISIGNAL (dBm)	-0.66	-10.66	-201.08	-201.08	-201.08	-201.08
ISIGNAL (VRMS)	0.7192	0.2271	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<ON>	<ON>	OFF	OFF	OFF	OFF
IDIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.12303 Hertz					
IMPULSE-NOISE <ON> RANDOM	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 0.500000E+03 impulses/min PULSE WIDTH: 0.001000 seconds						
CHANNEL-NOISE <ON>, POWER IN dBm: -12.6562 RMS Voltage: 0.180413						
JAMMING OFF						

FROM

09/04/86 15:01 P. I



DELTA INFORMATION SYSTEMS, INC.

HORSHAM BUSINESS CENTER BUILDING 3

300 NELSON ROAD

WYOMING, PA 18344

215/657-5270

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TOTAL P. 1



DELTA INFORMATION SYSTEMS, INC.

TEST MESSAGE OVER CHANNEL
TO TEST AND
MONITOR THE CHANNEL
TRANSMISSION

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a h r d q f g h i j k l m n o p q r s t u v w x y z , . / 1 2 3 4 5 6 7 8 9 0 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z ! @ # \$ % & * () - _ + = : ; " '

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The following is a list of various letters, numbers, and symbols which can be found on many typewriters: a b c d

TEST III-C-4

TYPE - PREMESSAGE

BW 600 TO 2800 HzS/N 14 dBPATHS 31TRANSLATION 0 HzGROUP I S/F S,S,S,S,SGROUP II S/F S,S,S,S,S

GROUP III		S/F	DATA RATE
1	<u>5</u>	<u>2400</u>	
2	<u>5</u>	<u>2400</u>	
3	<u>5</u>	<u>2400</u>	
4	<u>5</u>	<u>2400</u>	
5	<u>5</u>	<u>2400</u>	

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP (Hz) 2-sid	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
SIGNAL (dBm)	-0.88	-201.05	-201.05	-201.05	-201.05	-201.05
SIGNAL (VRMS)	0.7002	0.0000	0.0000	0.0000	0.0000	0.0000
SIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	1	1	1	1	1	1
COMPOSITE RMS FADE RATE:	0.00000 Hertz					
IMPULSE NOISE <ON> RANDOM	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 0.100000E+03 impulses/min	PULSE WIDTH: 0.001000 seconds					
CHANNEL NOISE <ON> POWER IN dBm:	7.3774 RMS Voltage: 0.331289					
JAMMING OFF						

TEST III-C-4

TYPE - MESSAGE

BW 600 TO 2800 Hz

S/N 14 dB

PATHS 2/

TRANSLATION 0 Hz

GROUP I

DOCUMENT 9-24-86 16:11

GROUP II

DOCUMENT 9-24-86 16:02

GROUP III DATA RATE 2400 bps

DOCUMENT 9-24-85 15:52

	PATH NUMBER					
	-1-	-2-	-3-	-4-	-5-	-6-
MEAN DOP (Hz)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
RMS DOP(Hz) 2 sig	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DELAY (usec)	0	0	0	0	0	0
ISIGNAL (dBm)	0.88	201.05	201.05	201.05	201.05	201.05
ISIGNAL (VRMS)	0.7002	0.0000	0.0000	0.0000	0.0000	0.0000
ISIGNAL (ON/OFF)	<ON>	OFF	OFF	OFF	OFF	OFF
DIVERSITY NO.	-1	1	1	1	-1	-1
COMPOSITE RMS FADE RATE:	0.00000 Hertz					
IMPULSE NOISE <ON>, RANDOM	0.000 dB RE PEAK OUTPUT					
FREQUENCY: 0.100000E+03 impulses/min	PULSE WIDTH: 0.001000 seconds					
CHANNEL NOISE <ON>, POWER IN dBm:	-7.3774 RMS Voltage: 0.331289					
JAMMING OFF						



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HORSHAM BUSINESS CENTER, BUILDING 3

300 WELSH ROAD

HORSHAM PA 19044

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P19-05252

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